

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

COATING LIQUID FOR FORMING A SILICA-CONTAINING FILM WITH A LOW-DIELECTRIC CONSTANT AND SUBSTRATE COATED WITH SUCH A FILM

the specification of which

(check one)

☒ is attached hereto.

☒ was filed on July 28, 1999 as

Application Serial No. PCT/JP99/04050

and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| Prior Foreign Application(s) |           |                        | Priority Claimed                        |                             |
|------------------------------|-----------|------------------------|---|-----------------------------|
| 247430/1998                  | Japan     | 1/Sept./1998           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| (Number)                     | (Country) | (Day/Month/Year Filed) |   |                             |
| 96367/1999                   | Japan     | 2/Apr./1999            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| (Number)                     | (Country) | (Day/Month/Year Filed) |   |                             |
|                              |           |                        | <input type="checkbox"/> Yes            | <input type="checkbox"/> No |
| (Number)                     | (Country) | (Day/Month/Year Filed) |   |                             |

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

PCT/JP99/04050

July 28, 1999

Pending

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

|                         |        |                    |        |                      |        |
|-------------------------|--------|--------------------|--------|----------------------|--------|
| William H. Logsdon      | 22,132 | Barbara E. Johnson | 31,198 | Lester N. Fortney    | 38,141 |
| Russell D. Orkin        | 25,363 | Paul M. Reznick    | 33,059 | Randall A. Notzen    | 36,882 |
| David C. Hanson         | 23,024 | John W. McIlvaine  | 34,219 | Jesse A. Hirshman    | 40,016 |
| Frederick B. Ziesenheim | 19,438 | Michael I. Shamos  | 30,424 | James G. Porcelli    | 33,757 |
| Richard L. Byrne        | 28,498 | Blynn L. Shideler  | 35,034 | Kent E. Baldauf, Jr. | 36,082 |
| Kent E. Baldauf         | 25,826 | Julie W. Meder     | 36,216 |                      |        |

Send Correspondence to:

Russell D. Orkin, 700 Koppers Building, 436 Seventh Avenue, Pittsburgh PA 15219-1818

Direct Telephone calls to: (name and telephone number) Russell D. Orkin (412) 471-8815

|  |  |                       |
|--|--|-----------------------|
| Full name of sole or first inventor        | Akira NAKASHIMA  |                       |
| Inventor's signature                       | <i>Akira Nakashima</i>   | Date<br>April 7, 2000 |
| Residence                                  | Kitakyushu-shi, Fukuoka, Japan   |                       |
| Citizenship                                | Japanese   |                       |
| Post Office Address                        | c/o Wakamatsu Plant, Catalysts & Chemicals Industries Co., Ltd., 13-2, Kitaminato-machi, Wakamatsu-ku, Kitakyushu-shi, Fukuoka 808-0027, Japan |                       |
| Full name of second joint inventor, if any | Michio KOMATSU   |                       |
| Second inventor's signature                | <i>Michio Komatsu</i>  | Date<br>April 7, 2000 |
| Residence                                  | Kitakyushu-shi, Fukuoka, Japan   |                       |
| Citizenship                                | Japanese   |                       |
| Post Office Address                        | c/o Wakamatsu Plant, Catalysts & Chemicals Industries Co., Ltd., 13-2, Kitaminato-machi, Wakamatsu-ku, Kitakyushu-shi, Fukuoka 808-0027, Japan |                       |

(Supply similar information and signature for third and subsequent joint inventors.)



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

NOVEMBER 03, 2000

PTAS

WEBB ZIESENHEIM LOGSDON ORKIN & HANSON  
KENT E. BALDAUF  
700 KOPPERS BUILDING  
436 SEVENTH AVENUE  
PITTSBURGH PA 15219-1818



\*101463609A\*

CORRECTED

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/01/2000

REEL/FRAME: 011074/0559

NUMBER OF PAGES: 9

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT ASSIGNEE'S NAME ON REEL 010849, FRAME 0711.

ASSIGNOR:

NAKASHIMA, AKIRA

DOC DATE: 04/07/2000

ASSIGNOR:

KOMATSU, MICHIO

DOC DATE: 04/07/2000

ASSIGNEE:

CATALYSTS & CHEMICALS INDUSTRIES  
CO., LTD.

580, HORIKAWA-CHO, SAIWAI-KU  
KAWASAKI-SHI, KANAGAWA 210-0913

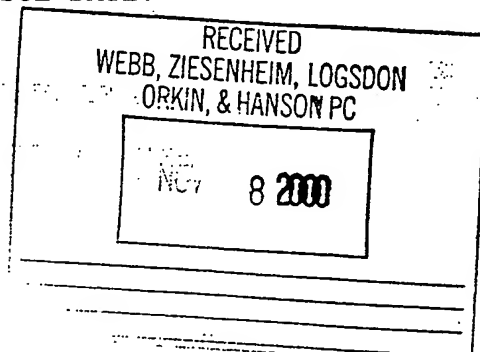
JAPAN

SERIAL NUMBER: 09530437

PATENT NUMBER:

FILING DATE: 04/28/2000

ISSUE DATE:



MAURICE CARTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



101463609

PATENTS ONLY

SEP 1 2000

To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Akira NAKASHIMA and  
Michio KOMATSUAdditional name(s) of conveying party(ies) attached? ☒ No

## 3. Nature of conveyance:

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☒ Other corrective Assignment to correct assignee on  
Reel/Frame 010849/0711

Execution Date: April 7, 2000

## 2. Name and address of receiving party(ies)

Name: Catalysts & Chemicals Industries Co., Ltd.Street Address: 580, Horikawa-cho, Saiwai-kuCity: Kawasaki-shi, Kanagawa 210-0913Country: Japan ZIP: \_\_\_\_\_Additional name(s) & address(es) attached? ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

Serial No. 09/530,437 filed April 28, 2000

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kent E. Baldauf  
 Internal Address: Webb Ziesenheim Logsdon  
Orkin & Hanson, P.C.  
 Street Address: 700 Koppers Building  
436 Seventh Avenue  
 City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00  
☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

(Attach triplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kent E. Baldauf, Reg. 25,826

Name of Person Signing

Signature

August 28, 2000

Date

Total number of pages including cover sheet, attachments and document 31

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignments, CG-4, 1213 Jefferson Davis Highway, Suite 320  
 Washington, D.C. 20231

09/18/2000 DNGUYEN 00000649 09530437

01 FC:581

40.00 DP

OMB No. 0651-0011 (exp. 4/94)



Tab settings 0 0 0 0

101382324

To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

4.28.00

Akira NAKASHIMA  
and Michio KOMATSU

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: April 7, 2000

2. Name and address of receiving party(ies)

Name: CATALYSTS &amp; CHEMICALS INDUSTRIES CO., INC.

Street Address: 580, Horikawa-cho, Saiwai-ku,  
Kawasaki-shi, Kanagawa 210-0913, Japan

City: \_\_\_\_\_

Country: \_\_\_\_\_ ZIP: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

09/530437

If this document is being filed together with a new application,  
the execution date of the application is: April 7, 2000

A. Patent Application No. (s)

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

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Name: Kent E. Baldauf

Internal Address: Webb Ziesenheim Logsdon

Orkin &amp; Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed with filing fee  
☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach triplicate copy of this page if paying by deposit account)

5/05/2000 MCLAYBRO 00000040 09530437

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kent E. Baldauf

Name of Person Signing  
Reg. No. 25,826

Signature

April 28, 2000  
Date

Total number of pages including cover sheet, attachments and document

3

Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents, Box Assignments  
Washington, D.C. 20231

ASSIGNMENT

WHEREAS, We, Akira NAKASHIMA  
and Michio KOMATSU, residing  
in c/o Wakamatsu Plant, Catalysts & Chemicals Industries Co., Ltd.,  
13-2, Kitaminato-machi, Wakamatsu-ku, Kitakyushu-shi, Fukuoka 808-0027, Japan, respectively,  
have invented certain new and useful improvements entitled  
COATING LIQUID FOR FORMING A SILICA-CONTAINING FILM WITH A LOW-DIELECTRIC CONSTANT AND SUBSTRATE  
for which we have this day executed an application for United COAT  
States Letters Patent; WITH SUCH A FILM

AND, WHEREAS CATALYSTS & CHEMICALS INDUSTRIES CO., LTD., a  
corporation of Japan, having a  
place of business at 580, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 210-  
hereinafter called the "assignee", is desirous of acquiring the 0913,  
entire right, title, and interest in and to said application and Japan  
the inventions and improvements therein disclosed.

NOW, THEREFORE, in consideration of One (\$1.00) Dollar  
and other good and valuable consideration paid to us by said  
assignee, the receipt of which is hereby acknowledged, we do  
hereby assign, sell, transfer, and set over unto said assignee  
the entire right, title and interest in and to said application  
and the inventions and improvements therein disclosed for the  
United States and all foreign countries and any Letters Patent  
which may issue therefor in the United States and all foreign  
countries and all divisions, reissues, continuations, renewals,  
and/or extensions thereof, said assignee to have and to hold the  
interests herein assigned to the full ends of the terms of said  
Letters Patent and any and all divisions, reissues,  
continuations, renewals, and/or extensions thereof, respectively,  
as fully and entirely as the same would have been held and  
enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested  
to issue such Letters Patent in accordance herewith. We covenant  
that we are the lawful owners of the said application,  
inventions, and improvements, that the same are unencumbered,  
that no license has been granted to make, use, or vend the said  
inventions or improvements or any of them, and that we have the  
full right to make this assignment.

And for the consideration aforesaid, we agree jointly  
and individually that we will communicate to said assignee or the  
representatives thereof any facts known to us respecting said  
inventions and improvements, and will, upon request, but without  
expense to us, testify in any legal proceedings, sign all lawful  
papers, execute all divisional, reissue, continuation, renewal,  
and/or extension applications, make all rightful oaths, and  
generally do all other and further lawful acts, deemed necessary  
or expedient by said assignee or by counsel for said assignee, to  
assist or enable said assignee to obtain and enforce full  
benefits from the rights and interests herein assigned. This  
assignment shall be binding upon our heirs, executors,

administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

EXECUTED April 7, 2000.

Akira Nakashima

Akira NAKASHIMA

Michio Komatsu

Michio KOMATSU

F. Miyazaki

Witness

Takanori Iida

Witness



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

ATTORNEY DOCKET NUMBER

AKIRA NAKASHIMA,  
and MICHIO KOMATSU

1217-000779

PCT/JP99/04050

ENTITLED

"COATING LIQUID FOR FORMING A SILICA-CONTAINING  
FILM WITH A LOW-DIELECTRIC CONSTANT AND  
SUBSTRATE COATED WITH SUCH A FILM"

To BOX PCT  
Attention: DO/EO/US

Assistant Commissioner for Patents  
Washington D.C. 20231

## EXPRESS MAIL CERTIFICATE

"Express Mail" Label Number EL561552173USDate of Deposit April 28, 2000

I hereby certify that the following attached paper or fee

RECORDATION FORM COVER SHEET (1 p.)  
with ASSIGNMENT (2 pp.)

is being deposited with the United States Postal Service "Express  
Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on  
the date indicated above and is addressed to the Assistant  
Commissioner for Patents, Washington, D.C. 20231.

Nora Ann Pastrick

(Typed name of person mailing paper or fee)



(Signature of person mailing paper or fee)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 1773 :  
In re Application of : COATING LIQUID FOR FORMING  
AKIRA NAKASHIMA ET AL. : A SILICA-CONTAINING FILM  
Serial No. 09/530,437 : WITH A LOW-DIELECTRIC  
Constant AND SUBSTRATE  
Filed April 28, 2000 : COATED WITH SUCH A FILM  
Pittsburgh, Pennsylvania  
August 28, 2000

REQUEST FOR CORRECTED ASSIGNMENT DOCUMENT  
DUE TO APPLICANT ERROR AND PTO ERROR

U.S. Patent and Trademark Office  
Assignment Division  
Box Assignments  
CG-4  
1213 Jefferson Davis Highway, Suite 320  
Washington, D.C. 20231

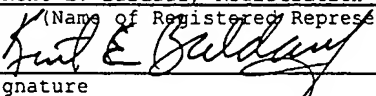
Sir:

Attached is a copy of the Notice of Recordation of Assignment Document which contains two errors in the "Assignee" for which a corrected Notice of Recordation of Assignment Document is respectfully requested. The errors are highlighted in red. Also enclosed is a Recordation Form Cover Sheet-Patents Only along with a copy of the Assignment document.

1. The Assignee's name is incorrect in that "INDUSRTIES" should read --INDUSTRIES--.
2. The Assignee's name is incorrect in that "INC." should read --LTD.--.

The first error is a PTO error, while the second error is Applicants' error.

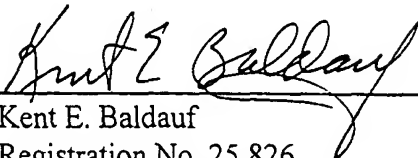
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on August 28, 2000.

Kent E. Baldauf, Registration No. 25,826  
(Name of Registered Representative)  
  
Signature Date 8/28/00

Our check in the amount of \$40.00 is enclosed to cover the fee for Applicants' error.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON  
ORKIN & HANSON, P.C.

By   
Kent E. Baldauf  
Registration No. 25,826  
Attorney for Applicants  
700 Koppers Building  
436 Seventh Ave.  
Pittsburgh, PA 15219-1818  
Telephone: 412-471-8815  
Facsimile: 412-471-4094

AUGUST 07, 2000

PTAS

WEBB. ZIESENHEIM LOGSDON ET AL  
KENT E. BALDAUF  
700 KOPPERS BUILDING  
436 SEVENTH AVENUE  
PITTSBURGH, PA 15219-1818

DEPARTMENT OF PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20531



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RECORDATION DATE: 04/28/2000

REEL/FRAME: 010849/0711  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NAKASHIMA, AKIRA

DOC DATE: 04/07/2000

ASSIGNOR:

KOMATSU, MICHIO

DOC DATE: 04/07/2000

ASSIGNEE:

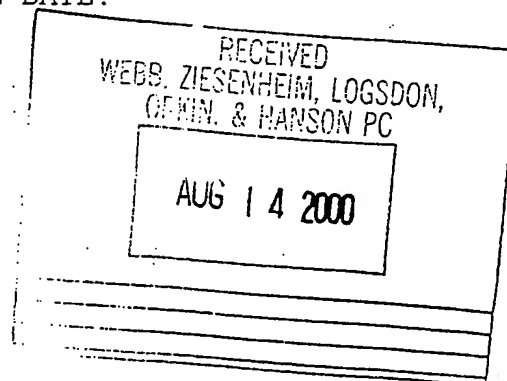
*INDUSTRIES*  
CATALYSTS & CHEMICALS *INDUSTRIES*  
CO., ~~INC.~~ LTD.  
580, HORIKAWA-CHO, SAIWAI-KU,  
KAWASAKI-SHI  
KANAGAWA 210-0913, JAPAN

SERIAL NUMBER: 09530437

PATENT NUMBER:

FILING DATE: 04/28/2000

ISSUE DATE:



MAURICE CARTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS